

CLAIMS

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9/19/07
1. (Currently Amended) A hydrogen gas generating system, comprising:
a membrane electrode assembly including an anode, a cathode and an ionically conductive membrane there between;
electrical connections for applying electrical power from a source of electrical power to said cathode and anode; and
a non-circulating transport layer of wicking material for transferring a water/fuel mixture by capillary action ~~through~~ from a first end portion of the layer of wicking material from a source of the water/fuel mixture to said anode to generate hydrogen gas and for transferring through a second portion of the layer from the first portion to a vent to transport gases released by consumption of the water/fuel mixture away from the anode by capillary action to a vent through a second end portion of the layer of wicking material, the second end portion of the layer acting as a barrier to the transport of the water/fuel mixture to the vent.
 2. (Currently Amended) The ~~invention~~ hydrogen gas generating system of claim 1, wherein said non-circulating transport layer of wicking material further comprises:
the first end portion of the layer of wicking material is in contact with the water/fuel mixture for transporting the water/fuel mixture to the anode and the second end portion of the layer of wicking material is in contact with said first end portion of the layer of wicking material for collecting gases therefrom.
 3. (Currently Amended) The ~~invention~~ hydrogen gas generating system of claim 2, wherein areas of said first and second end portions of the layer of wicking material are interspersed along the contact between the first and second end portions thereof.
 4. (Currently Amended) The ~~invention~~ hydrogen gas generating system of claim 2, wherein said areas of said first and second end portions of the layer of wicking material are interlaced.